

1. *The Globe.*

The N. polar cap was not particularly dark in 1899, appearing certainly lighter than it did in 1895. No trace of the N. temperate band ; but the double N. tropical belt was an obvious feature under almost every kind of definition.

The dark spots which sprinkle this belt, and especially its S. component, were missed here in 1899, though vague traces of some seem to have been caught on July 7 and 27.

Also, the equatorial zone did not show its ordinary "wool pack" structure, while the narrow equatorial belt was invisible.

An interesting "black drop" appearance, due to irradiation, was repeatedly detected in the shadow cast by the planet on the ring, there where it met the Cassini division.

2. *The Rings.*

(a) *Outer Ring, A.*—Encke's division was seen on one occasion only, on July 30, the best night of the season (Plate 12), when it was perfectly visible on both ansæ. An easier feature of Ring A was a series of dusky indentations emerging from the Cassini division. The outer edge of A was in no wise sharply defined, but seemed to shade off rather gently into space.

Cassini's division could be traced all round the Ring without difficulty, even under very poor seeing. It was not black, but dark grey. The division seemed tangent to *Saturn's* N. limb.

(b) *Inner Bright Ring, B.*—This Ring shaded into the "Crape" Ring without any intermediate separation. On July 30 B was split into two rings by the certain visibility, on both ansæ, of a narrow and faint dusky line as shown in the Plate.

(c) *The "Crape" Ring, C.* showed nothing abnormal, excepting, perhaps, an exaggerated concavity of its inner outline towards the centre, due probably to the interference of the S. equatorial belt of *Saturn*.

The eccentricity of the Ring, noted here every year since 1895, was re-observed in 1899. The eastern vicinity was still larger than the western, though the difference was certainly less marked than a few years ago.

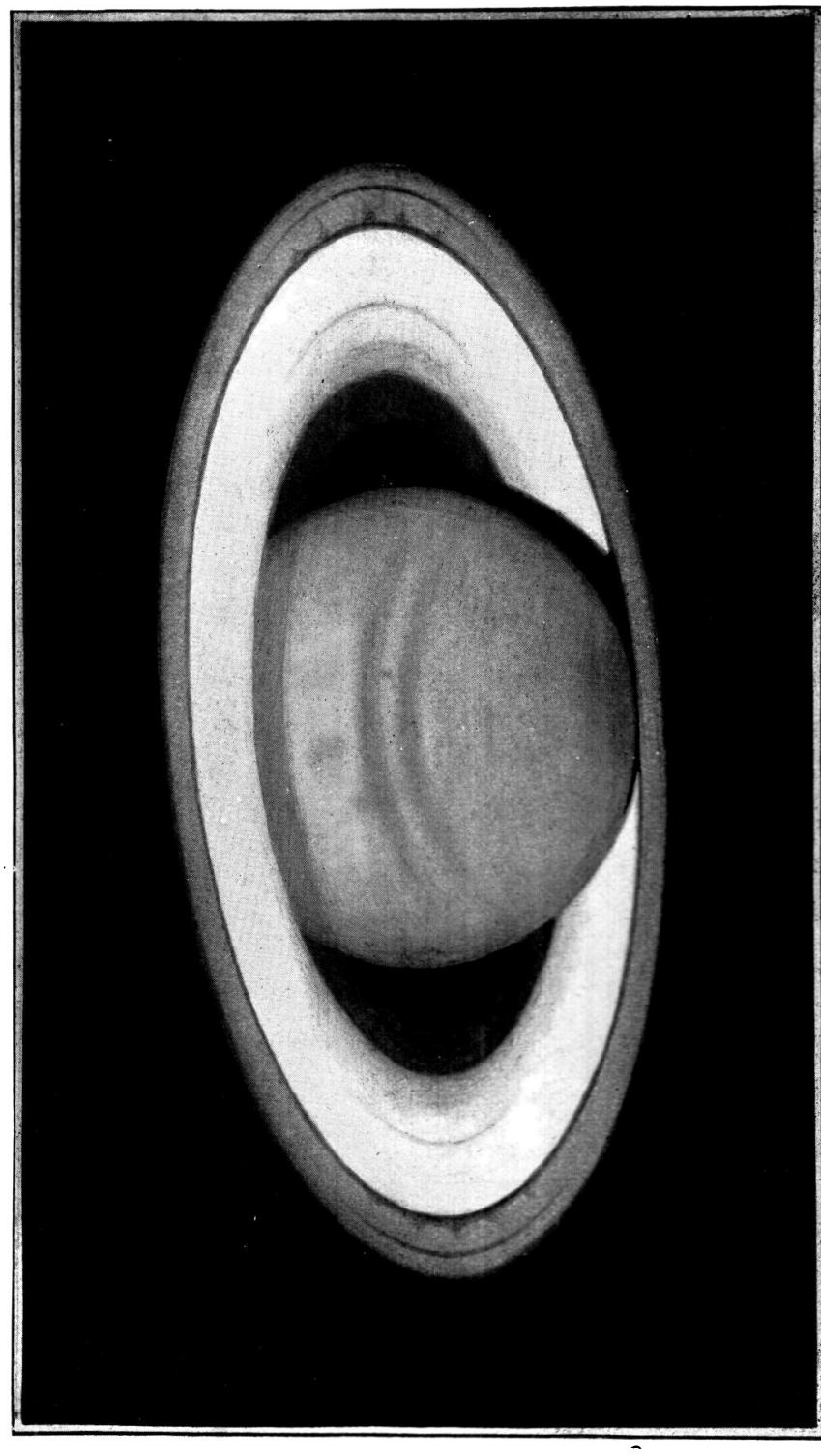
Juvisy Observatory (S.-et-O.), France,
1899 December 30.

*Note on a Possible Occultation of A Geminorum by Venus,
1900 May 27-28. By Walter W. Bryant.*

At about $2^{\text{h}} 45^{\text{m}}$ A.M. May 28, Greenwich civil time (some hours before the eclipse), *Venus* will be in conjunction in R.A. with *A Geminorum*, a star of the fifth magnitude, whose place for the day is approximately $7^{\text{h}} 17^{\text{m}} 24^{\text{s}}.5$, N. $25^{\circ} 14' 30''$. The

MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY. VOL. LX., PLATE 12.

E



W

SATURN

AS SEEN AT M. FLAMMARION'S OBSERVATORY ON 1899, JULY 30

BY E. W. ANTONIADI.

distance of the star from the limb of *Venus* amounts to about 9'', or half the horizontal parallax, *Venus* being south of the star.

It is practically certain that for a great part of the South Pacific the star will be occulted by *Venus* after sunset; and at some of the antipodean observatories, though there the Sun will not have set, there may be a good chance of obtaining observations of the phenomenon.

Ephemeris for Physical Observations of the Moon for the Second Half of 1900. By A. C. D. Crommelin.

Greenwich Midnight. 1900.	Selenographical Colong. Lat. of the Sun.	Geocentric Libration Sel. Long. Lat. of the Earth.	Combined Amount.	Direction.		
July 1	325° 64	-0° 72	+1° 54	+6° 74	6° 91	347° 1
2	337° 87	-0° 75	+0° 34	+6° 69	6° 70	357° 1
3	350° 11	-0° 77	-0° 92	+6° 35	6° 42	8° 2
4	2° 33	-0° 79	-2° 20	+5° 73	6° 14	21° 0
5	14° 55	-0° 81	-3° 39	+4° 87	5° 93	34° 8
6	26° 77	-0° 84	-4° 45	+3° 77	5° 83	49° 7
7	38° 98	-0° 86	-5° 26	+2° 48	5° 82	64° 8
8	51° 18	-0° 88	-5° 78	+1° 04	5° 87	79° 8
9	63° 37	-0° 91	-5° 95	-0° 48	5° 97	94° 6
10	75° 57	-0° 94	-5° 72	-2° 03	6° 07	109° 5
11	87° 76	-0° 96	-5° 11	-3° 49	6° 19	124° 3
12	99° 95	-0° 98	-4° 14	-4° 78	6° 32	139° 1
13	112° 14	-1° 01	-2° 88	-5° 78	6° 46	153° 5
14	124° 33	-1° 03	-1° 45	-6° 42	6° 58	167° 3
15	136° 52	-1° 05	+0° 04	-6° 64	6° 64	180° 3
16	148° 73	-1° 07	+1° 47	-6° 44	6° 61	192° 9
17	160° 93	-1° 09	+2° 74	-5° 82	6° 43	205° 2
18	173° 14	-1° 10	+3° 78	-4° 85	6° 15	217° 9
19	185° 36	-1° 12	+4° 58	-3° 60	5° 83	231° 8
20	197° 59	-1° 13	+5° 11	-2° 16	5° 55	247° 1
21	209° 83	-1° 15	+5° 40	-0° 63	5° 42	263° 3
22	222° 07	-1° 16	+5° 46	+0° 91	5° 54	279° 5
23	234° 32	-1° 18	+5° 32	+2° 38	5° 83	294° 1
24	246° 57	-1° 19	+4° 97	+3° 71	6° 20	306° 7
25	258° 82	-1° 20	+4° 50	+4° 83	6° 60	317° 0
26	271° 07	-1° 22	+3° 82	+5° 70	6° 86	326° 2
27	283° 32	-1° 23	+2° 98	+6° 29	6° 96	334° 7
28	295° 57	-1° 24	+1° 99	+6° 59	6° 88	343° 2